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DATE MAILED: 05/14/2009

NOTICE OF ALLOWANCE AND FEE(S) DUE

55694 7590 05/14/2009 DRINKER BIDDLE & REATH (DC) 1500 K STREET, N.W. SUITE 1100

WASHINGTON DC 20005-1209

EXAMINER
FLOHRE, JASON A

ART UNIT PAPER NUMBER

2622

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.			
10/554,105	08/24/2006	Hiroshi Akahori	46884-5432 (217377)	6588			
TITLE OF INVENTION: SOLID-STATE IMAGING DEVICE							

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	08/14/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

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B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

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B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FIEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless corrects maintenance fee notifica	correspondence includir ed below or directed oth	or transmitting the ig the Patent, advan nerwise in Block 1,	ce orders and notification by (a) specifying a new	corres	naintenance fees wi pondence address;	II be and/or	nailed to the current (b) indicating a sepa	corresponden rate "FEE Al	ce address as DDRESS" for
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WASHINGTON	I, DC 20005-1209							(I	Depositor's name)
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APPLICATION NO.	FILING DATE		FIRST NAMED INVE	ENTOR		ATTO	RNEY DOCKET NO.	CONFIRMA	TION NO.
10/554,105 TITLE OF INVENTION	08/24/2006 SOLID-STATE IMAG	SING DEVICE	Hiroshi Akaho	ori		4688	I4-5432 (217377)	658	18
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nonprovisional	NO	\$1510	\$300		\$0		\$1810	08/1	4/2009
EXAM	INER	ART UNIT	CLASS-SUBCLA	SS]				
FLOHRE,	JASON A	2622	348-311000						
"Fee Address" ind PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATA less an assignee is ident h in 37 CFR 3.II. Comp	nge of Corresponder Indication form and Use of a Custon TO BE PRINTED	(I) the names of or agents OR, all (2) the name of registered attorn 2 registered pate listed, no name v ON THE PATENT (pringage data will appear on NOT a substitute for file	f up to ternativ a single ey or a ent attor will be t or typ t the pring an	e firm (having as a a agent) and the name: meys or agents. If n printed.	memb s of up o nam	er a 2		been filed for
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4a. The following fee(s) Issue Fee Publication Fee (N	o small entity discount p	permitted)		losed. edit can	d. Form PTO-2038	is atta			
- 11	s SMALL ENTITY state	is. See 37 CFR 1.27.					TTY status. See 37 Cl		
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Authorized Signature					Date				_
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55694 7.	590 05/14/2009		EXAMINER			
DRINKER BIDI	RINKER BIDDLE & REATH (DC) FLOHRE, JASON A					
1500 K STREET, N.W.			ART UNIT	PAPER NUMBER		
SUITE 1100 WASHINGTON DC 20005-1209			2622			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 396 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 396 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/554,105 AKAHORI ET AL. Notice of Allowability Examiner Art Unit JASON FLOHRE 2622 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to amendment filed 04/24/2009. The allowed claim(s) is/are 1-3. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. T Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other . /Tuan V Ho/

Primary Examiner, Art Unit 2622

Application/Control Number: 10/554,105

Art Unit: 2622

DETAILED ACTION

Allowable Subject Matter

Claims 1-3 are allowed.

Claim 1 is allowable because prior art fails to teach a solid state imaging apparatus wherein a single potential gradient is formed for each set of photoelectric conversion portions arrayed in the second direction of the two-dimensional array below the plurality of transfer electrodes and increases gradually in a charge transfer direction, in combination with the other elements of the claim.

Claim 2 is allowable because prior art fails to teach a solid state imaging apparatus wherein a predetermined potential is applied to each of the plurality of transfer electrodes in such a manner that a single potential gradient is formed for each set of photoelectric conversion portions arrayed in the second direction of the two-dimensional array below the plurality of transfer electrodes, and wherein the single potential gradient increases gradually in the charge transfer direction, in combination with the other elements of the claim.

Response to Arguments

Applicant's arguments filed 24 April 2009 have been fully considered and are persuasive.

The double patenting rejection has been withdrawn in light of the terminal disclaimer submitted on 24 April 2009.

Conclusion

Application/Control Number: 10/554,105

Art Unit: 2622

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASON FLOHRE whose telephone number is (571)270-7238. The examiner can normally be reached on Monday to Thursday 8:00 AM to 5:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh Tran can be reached on 517-272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Tuan V Ho/ Primary Examiner, Art Unit 2622

/JAF/